

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
1185R1Total Pages in this Submission  
32**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**SPACER FRAME FOR AN INSULATING UNIT HAVING STRENGTHENED SIDEWALLS TO RESIST TORSIONAL TWIST**

and invented by:

**Raymond G. Gallagher**If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

THIS IS A REISSUE APPLICATION OF U.S. PATENT NO. 5,813,191.

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 23 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications *(if applicable)*
  - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
  - d. ☐ Reference to Microfiche Appendix *(if applicable)*
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings *(if drawings filed)*
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

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**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

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**Application Elements (Continued)**

3. ☐ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☐ Formal                      Number of Sheets \_\_\_\_\_
- b. ☐ Informal                      Number of Sheets \_\_\_\_\_
4. ☐ Oath or Declaration
- a. ☐ Newly executed *(original or copy)*                      ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☐ With Power of Attorney                      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under  
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

8. ☐ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☐ Information Disclosure Statement/PTO-1449                      ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class    ☒ Express Mail *(Specify Label No.):* EM276274098US

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# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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## Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. ☒ Additional Enclosures (please identify below):

1 - Reissue Declaration Under 36 CFR 1.175  
2 - Request to Transfer Drawings  
3 - Assent of Assignee to Reissue  
4 - Order for Title Report

## Fee Calculation and Transmittal

### CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	21	- 20 =	1	x \$18.00	\$18.00
Indep. Claims	3	- 3 =	0	x \$78.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$760.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$778.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 16-2025 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$778.00 as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

  
Signature

Donald C. Lepiane  
Registration No. 25,996  
Attorney for Applicant  
Telephone: 412-434-2936  
Facsimile: 412-434-4292

Dated: September 20, 1999

Pittsburgh, Pennsylvania  
cc:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application for Reissue of :  
Raymond G. Gallagher :  
U.S. Patent No. 5,813,191 :  
SPACER FRAME FOR AN INSULATING :  
UNIT HAVING STRENGTHENED SIDEWALLS :  
TO RESIST TORSIONAL TWIST :  
..... :

ASSENT OF ASSIGNEE TO REISSUE

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

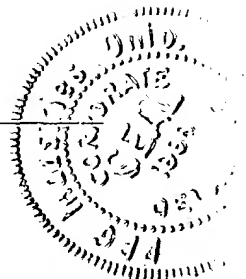
The undersigned, assignee of the entire interest in the above-mentioned United States Letters Patent, the invention described herein, and any reissue thereof, hereby assents to the accompanying application for reissue.

PPG Industries Ohio, Inc., assignee of the instant application, will surrender the original patent after Notice of Allowance of the instant application has been received.

PPG INDUSTRIES OHIO, INC.

By Rita Bergstrom  
Rita Bergstrom  
Assistant Secretary

Pittsburgh, Pennsylvania  
September 20, 1999



0939545-092099

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TO RESIST TORSIONAL TWIST :  
.....:

ORDER FOR TITLE REPORT

Assistant Commissioner of Patents  
Washington, D.C. 20231

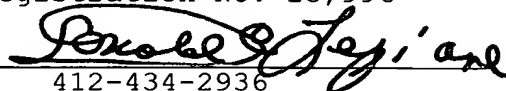
Sir:

It is hereby requested that a title search be made  
in regard to U.S. Patent No. 5,813,191 granted September 29,  
1998, and the same be incorporated in the file of this  
application.

Please charge the cost of the title search in  
accordance with 37 CFR 1.19(b)(6) to Deposit Account No.  
16-2025.

Respectfully submitted,

DONALD C. LEPIANE  
Attorney of Record  
Registration No. 25,996

  
412-434-2936

Pittsburgh, Pennsylvania  
September 20, 1999

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application for Reissue of :  
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TO RESIST TORSIONAL TWIST :  
.....:

REQUEST TO TRANSFER DRAWINGS

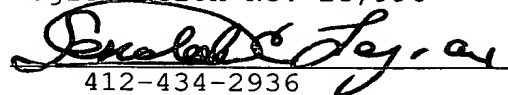
Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

This reissue application has been filed with photoprints of the drawings for examination purposes. Please transfer the formal drawings from the file of the original patent, U.S. Patent No. 5,813,191 to the present reissue application upon allowance of the reissue application. No change in the drawings is required.

Respectfully submitted,

DONALD C. LEPIANE  
Attorney of Record  
Registration No. 25,996

  
412-434-2936

Pittsburgh, Pennsylvania  
September 20, 1999

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